

Complete Listing of All Claims

1. (Currently Amended) A light source comprising:

a lamp envelope made of a light transmissive material, ~~wherein the envelope has~~  
having an ellipsoidal portion disposed extending centrally between tubular portions disposed on  
opposite ends of the ellipsoidal portion, the ellipsoidal portion having first and second foci  
associated therewith;

a filament centrally disposed within the envelope;

an infrared reflective filter coating disposed on at least a portion of the lamp envelope  
in surrounding relation to the filament; and,

a totally reflecting coating disposed on at least one end of the envelope in surrounding  
relation to the filament;

the infrared reflective filter coating having alternate layers of respective high and low  
refractive indices for selectively passing desired radiation through and reflecting unwanted radiation  
to the filament;

the totally reflecting coating being disposed on the at least one end of the envelope  
subtending an angle from approximately 22° and greater from an axis aligned with the filament; and,

the length of the filament fitting substantially between the first and second optical  
foci for absorbing substantially all of the radiation reflected from the infrared reflective filter and the  
totally reflecting coating.

2. (Original) The light source of claim 1 further comprising a pair of lead wires  
connected to opposite ends of the filament for energizing the filament.

3. (Original) The light source of claim 1 further comprising a lead wire connected to  
an end of the filament and for energizing the filament.

4. (Canceled)

5. (Canceled)

6. (Canceled)

7. (Canceled)

8. (Canceled)

9. (Original) The light source of claim 1 wherein the totally reflecting coating is disposed on both ends of the envelope subtending an angle from approximately 22° to 45° from an axis aligned with the filament.

10. (Currently Amended) A light source comprising:

a lamp envelope made of a light transmissive material having an ellipsoidal portion, the ellipsoidal portion having first and second foci associated therewith;

a filament disposed within the envelope;

an infrared reflective filter coating disposed on at least a portion of the lamp envelope in surrounding relation to the filament; and,

a totally reflecting coating disposed on an end of the envelope in surrounding relation to the filament formed of one of a silver and aluminum coating to direct radiation toward the filament;

the infrared reflective filter coating having alternate layers of respective high and low refractive indices for selectively passing desired radiation through and reflecting unwanted radiation to the filament;

the totally reflecting coating being disposed on the end of the envelope subtending an angle from approximately 22° to 45° from an axis aligned with the filament; and,

the length of the filament being located substantially between the first and second optical foci for absorbing substantially all of the radiation reflected from the infrared reflective filter and the totally reflecting coating.

11. (Original) The light source of claim 10 wherein the totally reflecting coating is provided on both end regions of an ellipsoidal portion of the envelope.

12. (Previously Amended) The light source of claim 10 wherein the totally reflecting coating is provided on tubular portions extending from opposite ends of the ellipsoidal portion.

13. (Canceled)

14. (Canceled)

15. (Canceled)

16. (Canceled)

17. (Original) The light source of claim 10 wherein the totally reflecting coating is disposed on portions of both ends of the envelope subtending an angle from approximately 22° and greater from an axis aligned with the filament.

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Cont.

18. (Canceled)

19. (Currently Amended) The light source of claim ~~18~~ 10 wherein totally reflecting coating is provided on end regions of the ellipsoidal portion of the envelope and tubular portions extending from opposite ends of the ellipsoidal portion.

20. (Original) The light source of claim 10 further comprising a reflector receiving visible light from the light source, the totally reflecting coating matching useful reflecting areas of the reflector.

21. (Currently Amended) A light source comprising:

a lamp envelope made of a light transmissive material, wherein the envelope has an ellipsoidal portion having first and second foci associated therewith and disposed centrally between tubular portions disposed on opposite ends of the ellipsoidal portion;

a filament centrally disposed within the envelope wherein the length of the filament fits substantially between the first and second optical foci for absorbing substantially all of the radiation reflected from the infrared reflective filter and the totally reflecting coating;

an infrared reflective filter coating disposed on at least a portion of the lamp envelope in surrounding relation to the filament, the infrared reflective filter coating having alternate layers of

respective high and low refractive indices for selectively passing desired radiation through and reflecting unwanted radiation to the filament; and

a totally reflecting coating disposed on at least one end of the envelope in surrounding relation to the filament subtending an angle of 45° and less measured from an axis aligned with the filament.

22. (Canceled)

23. (Currently Amended) The light source of claim ~~22~~ 21 wherein the totally reflecting coating also extends over the tubular portions of the envelope.

24. (Previously Added) The light source of claim 21 wherein the totally reflecting coating is disposed on both ends of the envelope subtending an angle from approximately 22° to 45° from an axis aligned with the filament.

25. (New) The light source of claim 1, wherein the infrared reflective filter coating is disposed on substantially all of the lamp envelope.

26. (New) The light source of claim 1, wherein the ellipsoidal portion of the lamp envelope has first and second end regions, the totally reflective coating is disposed on both of the first and second end regions with the coating extending along a greater portion of the first end region than the second end region.

27. (New) The light source of claim 1, wherein the totally reflective coating extends along substantially all of each of the tubular portions.

28. (New) The light source of claim 10, wherein the infrared reflective filter coating is disposed on substantially all of the lamp envelope.

C1  
Cont.

29. (New) The light source of claim 10, wherein the ellipsoidal portion of the lamp envelope has first and second end regions, the totally reflective coating is disposed on both of the first and second end regions with the coating extending along a greater portion of the first end region than the second end region.

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30. (New) The light source of claim 23, wherein the totally reflecting coating extends over substantially all of the tubular portions of the envelope.

31. (New) The light source of claim 21, wherein the ellipsoidal portion of the lamp envelope has first and second end regions, the totally reflective coating is disposed on both of the first and second end regions with the coating extending along a greater portion of the first end region than the second end region.

32. (New) The light source of claim 21, wherein said totally reflective coating is a specular coating formed from one of a silver and aluminum material.